

Safety Data Sheet

Photoluminescent Pigment

Version 1.0

Issue date: 8th December 2022

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Section 1 Identification Of The Substance/Mixture And Of The Company/Undertaking

1.1 Product identifier:

Identification on the label/Trade name: Photoluminescent Pigment
Additional identification: Nanoform is NOT covered by this SDS.
Identification of the product: CAS#12042-68-1 EC#234-931-0
Index Number: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

Used for Glow in the dark paint, ink, glass, resins etc.
PC 9a: Coatings and paints, thinners, paint removes
PC 9b: Fillers, putties, plasters, modelling clay
PC 9c: Finger paints
PC 18: Ink and toners
PC 26: Paper and board treatment products
PC 34: Textile dyes, and impregnating products
PC 35: Washing and cleaning products
PC 39: Cosmetics, personal care products
SU 6b: Manufacture of pulp, paper and paper products
SU 7: Printing and reproduction of recorded media
SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)
SU 11: Manufacture of rubber products
SU 12: Manufacture of plastics products, including compounding and conversion
SU 16: Manufacture of computer, electronic and optical products, electrical equipment
SU 23: Electricity, steam, gas water supply and sewage treatment

1.2.2 Uses advised against:

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): JOLIN CORPORATION
Supplier(Manufacturer): JOLIN CORPORATION
Address: 7I, WORLD FINANCIAL CENTER, NO. 33 HUIZHAN ROAD, SHAHEKOU
DIST., DALIAN, CHINA
Prepared by :QUALITY ASSURANCE DEPT. JINLING CHEN
Telephone: 86-411-82479386
Fax: -

1.4 Emergency telephone Number:

86-411-82479386 Only available during office hours (9:00a.m.-17:30p.m.)

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification system:

The classification is in line with current EC list. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Physical Hazards

Explosive	:No
Flammable Solid	:No
Self-Reactive Substances	:No
Pyrophoric Solid	:No
Self-Heating Substances	:No
Oxidizing Solid	:No
Substances Corrosive to Metal	:No

2.3 Health Hazards

Acute Toxicity(Oral)	:Category 5+
Acute Toxicity(Dermal)	:Category 5+
Acute Toxicity(inhalation)	:No
21days Repeated Oral Toxicity	:No (200mg/kg/day)
Skin Corrosion/Irritation	:No
Eye Irritation	:No
Respiratory Sensitizer	:N/D
Skin Sensitizer	:No
Germ Cell Mutagenicity	:No
Carcinogenicity	:N/D
Reproductive Toxicity	:No
TOST	:N/D
Aspiration Hazard	:N/D

2.4 Label Elements

Symbol	:None
Signal Words	:None
Hazard Statements	:None
Hazard and toxicity information	:Unconfirmed long-term effects on Aquatic organisms.
Dangerous	:Non-combustible. No risk in fire fighting.
Harmful Affect	:Dust-inhalation may irritate respiratory tract and cause cough.
Handling(Protection)	:To ware protection equipment and avoid directly exposure. Gloves, goggles, masks are recommended to use during handling pigment directly. Don't breathe dust. To avoid releasing to environment.
Handling(Emergency Remedy)	:Inhalation by accident - remove to fresh air. Oral - Spit the dust out and clean the mouth by clean water. Eyes Contacting - Hold eyelids open and flush eyes by clean water. Skin Contacting - Clean by water stream with soap. Consult Doctor for advice.
Storage	: Keep the material in sealed, dry, clean container to avoid water and high moisture.
Abandon	: Ask authorized organization to handle.
	Unconfirmed long-term effects on Aquatic organisms.
	Inorganic powder form pigment with slightly solubility. To avoid inhalation.

Section 3 Composition/Information On Ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	CAS No.	EC No.	Concentration	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Calcium aluminate activated by Europium and neodymium	12042-68-1	234-931-0	100%	N/A

Section 4 First Aid Measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove patient to fresh air. Seek medical attention.

4.1.2 In case of skin contact:

Wash affected area with soap and water. If irritation develops seek medical attention.

4.1.3 In case of eyes contact:

Wash with plenty of water. Seek medical attention.

4.1.4 In case of ingestion:

Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing media:

Normal extinguishing agents may be used if the substance is involved in a fire.

Unsuitable extinguishing media:

Not available.

5.2 Special hazards arising from the substance or mixture

The substance is a mixture of metal oxides and no products of combustion are expected. However, smoke may contain oxides of aluminium, strontium, dysprosium and europium.

5.3 Advice for firefighters:

Self-contained breathing apparatus with full-face mask and full protective clothing (standard wear).

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Not required as not hazardous; in case of spillage sweep and collect contents and wash out area with water.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

N/A

6.3 Methods and material for Containment and Cleaning up:

Sweep and place in a closable container for disposal.

6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling And Storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

keep away from water to pick the material mildly to avoid dust generation.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities: To avoid storing in high temperature/moisture place.

Remove with suitable packing.

7.3 Specific end use(s): Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Goggle will be worn.

Skin protection

Hand protection: Rubber gloves will be worn when handling the substance

Body protection: Full personal protective clothing should be worn.

Respiratory protection: A dust mask will be worn.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical And Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Powder
Colour:	White
Odour:	Odorless
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	1745°C
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available

Vapour density:	Not available
Relative Density:	3.6
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Insoluble
n-Octanol/Water (log Po/w):	< 0 (20°C)
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	No oxidising properties
Molecular Formula:	Not available
Molecular Weight:	Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability And Reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Protect from atmospheric moisture and water. Avoid dust formation.
10.5 Incompatible materials:	Avoid contacting with strong alkaline and acids
10.6 Hazardous decomposition products:	Strong alkaline and acids.

Section 11 Toxicological Information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rat):	> 2 000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

11.2 Information on other hazards

Endocrine disrupting properties	The substance is not identified as having endocrine disrupting properties.
Other information	Not applicable

Section 12 Ecological Information

12.1 Persistence and degradability:	Not available.
12.2 Bioaccumulative potential:	Not available.
12.3 Mobility in soil:	Not available.
12.4 Results of PBT and vPvB assessment:	The substance is not PBT / vPvB.
12.5 Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties.
12.6 Other adverse effects:	Not available.
12.7 Additional information	Not available.

Section 13 Disposal Considerations

13.1 Waste treatment methods:	Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible.
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Section 14 Transport Information

- **IMDG/IMO not regulated**
- **No special information for transport.**

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:			
Relevant information regarding authorization:	Not applicable.		
Relevant information regarding restriction:	Not applicable.		
Other EU regulations:	Employment restrictions concerning young person must be observed.		
Other National regulations:	Not applicable		
15.2 Chemical safety assessment	YES	X	NO

Section 16 Other Information

16.1 Training instructions:

Not applicable.

16.2 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.3 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.